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1 Physical design equivalencies in database conversion
Mark L. Gillenson
August 1990 **Communications of the ACM**, Volume 33 Issue 8
Publisher: ACM Press
Full text available: pdf(1.45 MB) Additional Information: full citation, abstract, references, citings, index terms, review

As relational technology becomes increasingly accepted in commercial data processing, conversion of some of the huge number of existing navigational databases to relational databases is inevitable. It is thus important to understand how to recognize physical design modifications and enhancements in the navigational databases and how to convert them to equivalent relational terms as applicable.

Keywords: database performance

2 Database design: A practical design methodology for the implementation of IMS databases, using the entity-relationship model
Ewing L. Lusk, Ross A. Overbeek, Bruce Parrello
May 1980 **Proceedings of the 1980 ACM SIGMOD international conference on Management of data SIGMOD '80**
Publisher: ACM Press
Full text available: pdf(967.85 KB) Additional Information: full citation, references, citings

3 Hierarchical Data-Base Management: A Survey
D. C. Tsichritzis, F. H. Lochovsky
March 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1
Publisher: ACM Press
Full text available: pdf(1.29 MB) Additional Information: full citation, references, citings, index terms

4 Recovery Techniques for Database Systems
Joost S. M. Verhofstad
June 1978 **ACM Computing Surveys (CSUR)**, Volume 10 Issue 2
Publisher: ACM Press
Full text available: pdf(2.32 MB) Additional Information: full citation, references, citings, index terms

5 Federated databases and systems: part I --- a tutorial on their data sharing
David K. Hsiao
July 1992 **The VLDB Journal — The International Journal on Very Large Data Bases,** Volume 1 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(2.99 MB) Additional Information: full citation, abstract, references, citings

The issues and solutions for the interoperability of a class of heterogeneous databases and their database systems are expounded in two parts. Part I presents the data-sharing issues in federated databases and systems. Part II, which will appear in a future issue, explores resource-consolidation issues. *Interoperability* in this context refers to data sharing among heterogeneous databases, and to resource consolidation of computer hardware, system software, and support personnel. *Resour ...*

Keywords: *attribute-based, data-model-and-language-to-data-model-and-language mappings, database conversion, hierarchical, network, object-oriented, relational, schema transformation, transaction translation*

6 Techniques for Structuring Database Records
Salvatore T. March
March 1983 **ACM Computing Surveys (CSUR),** Volume 15 Issue 1
Publisher: ACM Press
Full text available: pdf(3.02 MB) Additional Information: full citation, references, citings, index terms

7 A study of order transformations of hierarchical structures in IMS data bases
J. W. Mehl, C. P. Wang
May 1974 **Proceedings of the 1974 ACM SIGFIDET (now SIGMOD) workshop on Data description, access and control**
Publisher: ACM Press
Full text available: pdf(667.34 KB) Additional Information: full citation, abstract, references, citings, index terms

Hierarchical structures are widely used in information processing. An application program written to traverse a hierarchical structure will not work properly, if at all, when the order of the structure (in the sense of tree order) is altered. This paper presents a method in the context of IMS systems to intercept and interpret data base manipulation commands issued by the application program to eliminate the necessity of reprogramming when a hierarchical structure is subject to an order tra ...

8 Multidatabase systems: Engineering an SQL gateway to IMS
G. N. Paulley
October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: distributed computing - Volume 2**
Publisher: IBM Press
Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references

Multidatabase systems enable organizations to integrate legacy database systems, and their applications, with newer database technology. One such legacy system is IBM'S Information Management System (IMs), a hierarchical database management system developed in the 1960s. Commercial IMS gateways typically suffer from poor performance and lack essential features needed to support updates. In this paper, we outline the engineering issues of constructing a multi-user IMS gateway that supports both c ...

9 Actual conversion experiences
James H. Burrows
October 1981 **ACM SIGMOD Record , ACM SIGMIS Database,** Volume 12 , 12,13 Issue 2 , 4,1
Publisher: ACM Press
Full text available: Additional Information:

pdf(1.55 MB) full citation

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